

TENT COOPERATION TREAT

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CM1709/VB	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/IB 99/00185	International filing date (day/month/year) 02/02/1999	(Earliest) Priority Date (day/month/year) 17/02/1998
Applicant THE PROCTER & GAMBLE COMPANY et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 99/00185

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A61L15/46 A61L15/18 A61L9/01 A61L15/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE WPI Section Ch, Week 9329 Derwent Publications Ltd., London, GB; Class D22, AN 93-231547 XP002036165 & JP 05 154187 A (MITSUBISHI MATERIALS CORP) see abstract</p> <p style="text-align: center;">---</p>	
A	<p>DATABASE WPI Section Ch, Week 8848 Derwent Publications Ltd., London, GB; Class D22, AN 88-341015 XP002071651 & JP 63 252157 A (NIPPON KASEI KK) see abstract</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p>	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

29 March 1999

Date of mailing of the international search report

07/04/1999

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Cousins-Van Steen, G

INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 103 214 A (KANEBO LTD ;KANTO KAGAKU (JP)) 21 March 1984 & US 4 525 410 A cited in the application ----	
A	WO 81 01643 A (MOLECULAR SIEVE SYSTEMS INC) 25 June 1981 cited in the application -----	

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/IB 99/00185

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0103214	A	21-03-1984	JP 1390178 C	23-07-1987
			JP 59037956 A	01-03-1984
			JP 61022977 B	03-06-1986
			CA 1225584 A	18-08-1987
			DE 3378673 A	19-01-1989
			US 4525410 A	25-06-1985
WO 8101643	A	25-06-1981	EP 0041569 A	16-12-1981

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

A

Applicant's or agent's file reference CM1709/VB	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) FOR FURTHER ACTION	
International application No. PCT/IB99/00185	International filing date (day/month/year) 02/02/1999	Priority date (day/month/year) 17/02/1998
International Patent Classification (IPC) or national classification and IPC A61L15/46		
Applicant THE PROCTER & GAMBLE COMPANY et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 5 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 25/08/1999	Date of completion of this report 23.05.2000
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Staber, B Telephone No. +49 89 2399 8587 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IB99/00185

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-11 as originally filed

Claims, No.:

1-14 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims 6-12, No: Claims 1-5, 13, 14
Inventive step (IS)	Yes: Claims 6, 7, 9 No: Claims 1-5, 8, 10, 11-14
Industrial applicability (IA)	Yes: Claims 1-14 No: Claims

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EXAMINATION REPORT**

International application No. PCT/IB99/00185

2. Citations and explanations

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Section VIII: Clarity

Claim 1 does not fulfil Art. 6 PCT since the wording thereof does not clearly reflect the fact that the dopants are selected from those compounds which have to be adsorbed or derivatives thereof as mentioned in the description on page 3, fourth paragraph.

The letter "E" used on page 6 in combination with a certain range is not clear.

Section V

Novelty

The present invention provides an odour controlling material comprising an inorganic adsorbent material which is preferably selected from active silica and at least one dopant selected from fatty acids, amines, ammonia, alcohols, aldehydes, ketones, and heterocompounds.

Prior art document D1 (DATABASE WPI Section Ch, Week 9329 Derwent Publications Ltd., London, GB; Class D22, AN 93-231547 XP002036165 & JP 05 154187 A (MITSUBISHI MATERIALS CORP)) describes a deodorising cartridge comprising an inorganic material in the form of silica gel or zeolite which are impregnated with an aqueous solution of aldehyde compounds and an aqueous solution of organic acid compounds.

The aldehyde and acid impregnated (or doped) article of D1 takes away novelty of claims 1 to 5, 13 and 14; these claims do therefore not meet the requirements of Art. 33(2) PCT.

Inventive Step

The present invention provides adsorbent, odour controlling materials of improved adsorption power, especially of improved adsorption power verses selected compounds.

As set out in claims 6, 7 and 9 the adsorption capability can be improved by incorporating into an adsorbent material certain amines, heterocompounds or

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IB99/00185

compounds bearing more than one active group. Document D1 which is available as abstract only, and which represents the nearest prior art document since it is concerned with the deodorising of ammonia and certain sulfur compounds, does neither disclose nor suggest the above-mentioned dopants, thus they are considered to be a non-obvious alternative to those mentioned in D1.

Hence, claims 6, 7 and 9 appear to involve an inventive merit.

The subject-matter mentioned in claims 8 and 10 is an obvious modification of the material disclosed in D1, which does not impart an inventive step to these claims.

The fact that the odour controlling material is incorporated into an adsorbent article as defined in claims 11 and 12 is obvious from the teaching of prior art document D2 (WO-A-8 101 643) which discloses that materials such as zeolites and silica gel are adsorbents which can be used in adsorbing articles such as diapers.

Consequently, claims 1 to 5, 8, 10, 11 to 14 do not fulfil the requirements of Art. 33(3) PCT.

INTERNATIONAL COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C. 20231
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 20 October 1999 (20.10.99)	
International application No. PCT/IB99/00185	Applicant's or agent's file reference CM1709/VB
International filing date (day/month/year) 02 February 1999 (02.02.99)	Priority date (day/month/year) 17 February 1998 (17.02.98)
Applicant CORZANI, Italo	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
25 August 1999 (25.08.99)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Lazar Joseph Panakal Telephone No.: (41-22) 338.83.38
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Form PCT/IB/331 (July 1992)

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